

2012 VARIETY DESCRIPTIONS

PEA (Other)

Variety	Years tested*	Type	Yield % Cutlass**			Vine Length ***	Powdery mildew resistance	Maturity	Lodging (1-9)†	Seed weight g/1000	Year released via VRP	Agronomic comments	Market comments
			1,2, & South 3	North 3 & 4	Irrigation								
CDC Sonata (9808)	4	Forage	102	94	ID	85	Very good	Late	6.5	220	2000	High biomass; competitive with weeds, normal leaf type	Medium size, moderately round shape, medium protein content, moderate seed coat durability
CDC Tucker (1096-8)	3	Forage	99	99	88	100	Very good	Medium	4.0	170	2006	High biomass (similar to 40-10, greater than Trapper) with good lodging resistance	Improved protein content and relative feed value of biomass in comparison to Trapper and 40-10, small seed size
CDC Leroy (1287-2)	3	Forage	98	96	89	95	Very good	Medium	5.0	150	2008	High biomass (similar to 40-10, greater than Trapper) with good lodging resistance	Improved protein content and relative feed value of biomass in comparison to Trapper and 40-10, small seed size
CDC Horizon (1681-11) §	2	Forage	102	100	ID	100	Very good	Medium	4.5	170	2010	High biomass (approx 8% greater than 40-10), acceptable grain yield (approx 97% of Cutlass in forage elite test)	Similar feed value to Trapper and 40-10, small seed size
CDC Acer (203PMR16)	3	Maple	100	94	ID	60	Very good	Late	6.5	170	2001	Replacement for Whero, moderate lodging resistance	Small seed size, moderately round shape, tan seed coat color with mottled maple pattern
CDC Rocket (617-20)	3	Maple	93	104	100	75	Very good	Medium	6.0	210	2006	Earlier maturity than CDC Acer	Medium seed size, moderately blocky shape, tan seed coat colour with mottled maple pattern, lighter seed coat colour than CDC Acer
CDC Mosaic (1816-4) §	2	Maple	85	91	ID	85	Very good	Medium-late	4.0	180	2010	Acceptable grain yield. First maple with good lodging resistance.	Seed type similar to CDC Acer
CDC Dakota (2098-20) §	2	Dun	127	129	ID	85	Very good	Medium-late	3.5	205	2010	Good grain yield	Uniform, nice dun (greenish-tan) seed coat colour. Blocky seed shape. Non-dimpled seed surface.

* Coop and Regional trials in Saskatchewan

** Refer to map

***All varieties are semi-leafless unless otherwise noted

§ Information not included in Varieties of Grain Crops 2012

ID: Insufficient data

† Lodging score (1-9) where 1 = completely upright, 9 = completely lodged

Source: Varieties of Grain Crops 2012

B. PEA

I. Breeding Objectives

Development of early maturing, high yielding field pea cultivars with resistance to powdery mildew, improved resistance to mycosphaerella blight and lodging, and with superior quality for export and domestic markets.

II. Previously Released Varieties

The performance of previously released Variety Release Program (VRP) field pea varieties and key check varieties is summarized in Table 1.

- a) Yellow: In general, the yield of the VRP yellow pea varieties has exceeded Delta, Eclipse and Cutlass in the southern, northern, and irrigation portions of the pea-growing region. All are powdery mildew resistant. **CDC Hornet, CDC Treasure, CDC Prosper, CDC Meadow, CDC Golden, CDC Bronco, and Cutlass** have good lodging resistance. In 2008-2010, **CDC Golden** was by far the most widely grown pea cultivar in Saskatchewan, and in 2010, **CDC Meadow** was the second most widely grown pea cultivar in Saskatchewan (SCIC data).
- b) Green: **CDC Striker** has had consistent yield performance over the years with optimal seed size, shape and bleaching resistance for food markets. In 2008-2010, CDC Striker was by far the most widely grown green pea cultivar in Saskatchewan, and in 2009-2010 **CDC Sage** was the second most widely grown green pea cultivar in Saskatchewan (SCIC data). **CDC Patrick** has produced slightly greater yields than CDC Striker while maintaining good bleaching resistance. **CDC Tetris** is a high yielding variety with blocky seed shape and similar properties to Espace, making it suitable for Asian snack food markets. **CDC Pluto** has small round seeds with excellent colour properties; we expect it to fit into canning markets.
- c) Maple: **CDC Acer and CDC Rocket** are high yielding maple varieties with powdery mildew resistance. CDC Rocket is earlier maturing than CDC Acer, with somewhat larger seed size and lighter seed coat colour. **CDC Mosaic**, released in 2010, has similar seed type to CDC Acer, with improved agronomic performance.
- d) Forage: **CDC Tucker and CDC Leroy** have high grain yield and high biomass, with good biomass quality, powdery mildew resistance, and good lodging resistance. **CDC Horizon**, released in 2010, has similar growth habit and performance to CDC Tucker and CDC Leroy, but with approximately 8% greater biomass production.

The yellow pea varieties Cutlass, CDC Golden, CDC Meadow, CDC Prosper, CDC Treasure, CDC Hornet, CDC Saffron (2093-22), CDC 2462-30, CDC 2259-15, CDC 2283-17, CDC 2387-53, the green pea varieties CDC Striker, CDC Patrick, CDC Tetris, CDC Pluto, CDC Raezer (2235-4), CDC 2336-1, the forage variety CDC Horizon, the maple pea variety CDC Mosaic, and the dun pea variety CDC Dakota are being tested in the 2011 Saskatchewan Pea Regional Trial. All of these except the CDC 'numbered varieties' are also being tested in the Manitoba Pea Regional Trial.